

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharmacy Sem-I Remedial Examination March / April 2010

Subject code: 210003

Subject Name: Pharmaceutical Chemistry - I

Date: 01 / 04 /2010

Time: 11.00 am – 02.00 pm

Instructions:

Total Marks: 80

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a) Define & explain: Antiseptic and disinfectant 06
(b) Describe the preparation, properties, assay of Potassium permanganate. 05
(c) Write in detail the assay and uses of Hydrogen Peroxide. 05
- Q.2 (a) Describe the sources of impurities. 06
(b) Why impurities are allowed in the pharmaceuticals & to what extent ? 05
(c) Write a note on effects of impurities. 05
- Q.3 (a) Describe the limit test for iron. 06
(b) Draw a neat and labeled diagram of Gutzeit apparatus. 05
(c) Discuss the Barium sulphate reagent I.P. 85 useful in the limit test for sulphate. 05
- Q.4 (a) Clarify: Water for injection, Sterile water for injection and purified water I.P. 06
(b) What is hardness of water ? What is potable water ? 05
(c) Describe ion exchange resin method for softening hard water. 05
- Q.5 (a) Write the chemical formula for the followings: 06
1. Baking soda 2. Precipitated chalk. 3. Lunar caustic
4. Rochelle salt 5. Tartar emetic 6. Graham's salt
(b) Write composition of various iodine preparations. 05
(c) Discuss the biological significance of calcium. 05
- Q. 6 (a) Define and give examples: Expectorants, Inhalants 06
(b) Classify various gastro-intestinal agents with examples. 05
(c) Discuss at length dried aluminum hydroxide gel 05
- Q.7 (a) Discuss ORS. 06
(b) Describe Sodium fluoride as dental product. 05
(c) Define buffers. Write the mechanism of buffer action. 05
